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1 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on**
Publisher: IBM Press
Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index term

> Understanding distributed applications is a tedious and difficult task. Visualizations based on pr(
> often used to obtain a better understanding of the execution of the application. The visualizatioi
> event tracer developed at the University of Waterloo. However, these diagrams are often very c
> provide the user with the desired overview of the application. In our experience, such tools disp
> of non-trivial commun ...

2 Link and channel measurement: A simple mechanism for capturing and replaying wireless
Glenn Judd, Peter Steenkiste
August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approach**
design and analysis E-WIND '05
Publisher: ACM Press
Full text available: 📄 pdf(6.06 MB)   Additional Information: full citation, abstract, references, index term

> Physical layer wireless network emulation has the potential to be a powerful experimental tool.
> in physical emulation, and traditional simulation, is to accurately model the wireless channel. In
> the possibility of using on-card signal strength measurements to capture wireless channel trace:
> this approach is the simplicity and ubiquity with which these measurements can be obtained sin
> devices provide the req ...

> **Keywords:** channel capture, emulation, wireless

3 Design and implementation of a portable and adaptable load balancing framework
Erik Putrycz
October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on C**
Publisher: IBM Press
Full text available: 📄 pdf(902.69 KB)   Additional Information: full citation, abstract, references, index term

> Scaling applications to large networks and an increasing number of users has been since years ⸱
> Today, well known technologies exist to scale applications to local networks but scaling to large
> latency is still a challenge. Load balancing at the middleware level allows more flexibility (in teri
> distribution) than existing solutions based at lower system levels. However, it requires an execu
> mechanisms to be integr ...

4 The design and performance of a real-time CORBA event service
Timothy H. Harrison, David L. Levine, Douglas C. Schmidt
October 1997 **ACM SIGPLAN N tices , Pr ceedings f the 12th ACM SIGPLAN c nference i**
pr gramming, systems, languages, and applicati ns OOPSLA '97, Volume 32 Iss

Full text available: pdf(2.86 MB)   Additional Information: full citation, abstract, references, citings, ind

The CORBA Event Service provides a flexible model for asynchronous communication among ob standard CORBA Event Service specification lacks important features required by real-time appl operational flight programs for fighter aircraft have complex real-time processing requirements. design and performance of an object-oriented, real-time implementation of the GORBA Event S meet these requirements.This pape ...

5 Operating systems for sensor networks: Design and implementation of a single system im: for ad hoc networks

Hongzhou Liu, Tom Roeder, Kevin Walsh, Rimon Barr, Emin Gün Sirer
June 2005   **Proceedings of the 3rd international conference on Mobile systems, applicati MobiSys '05**
Full text available: pdf(261.28 KB)   Additional Information: full citation, abstract, references

In this paper, we describe the design and implementation of a distributed operating system for system simplifies the programming of ad hoc networks and extends total system lifetime by ma appear as a single virtual machine. It automatically and transparently partitions applications int dynamically finds them a placement on nodes within the network to reduce energy consumptior longevity. This paper describes our pr ...

6 Special issue: AI in engineering

D. Sriram, R. Joobbani
April 1985   **ACM SIGART Bulletin**, Issue 92
Full text available: pdf(8.79 MB)   Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area papers received from over six countries. About half the papers were received over the compute

7 Storage protocol designs: A study of iSCSI extensions for RDMA (iSER)

Mallikarjun Chadalapaka, Hemal Shah, Uri Elzur, Patricia Thaler, Michael Ko
August 2003   **Proceedings of the ACM SIGCOMM workshop on Network-I/O convergence: implications**
Full text available: pdf(281.32 KB)   Additional Information: full citation, abstract, references, index term

The iSCSI protocol is the IETF standard that maps the SCSI family of application protocols onto convergence of storage traffic on to standard TCP/IP fabrics. The ability to efficiently transfer ar TCP/IP networks is crucial for this convergence of the storage traffic. The iWARP protocol suite Memory Access (RDMA) semantics over TCP/IP networks and enables efficient memory-to-mem an IP fabric. This paper studies the ...

Keywords: DA, DDP, DI, Datamover, MPA, RDMA, RDMAP, SCSI, Verbs, iSCSI, iSER, iWARP

8 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann
August 1986   **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volum
Full text available: pdf(6.32 MB)   Additional Information: full citation, abstract, references, citings, ind

This paper presents an overview of the Cedar programming environment, focusing on its overal major components of Cedar and the way they are organized. Cedar supports the development c single programming language, also called Cedar. Its primary purpose is to increase the producti whose activities include experimental programming and the development of prototype software performance personal computer. T ...

9 A sliding-agent-group communication model for constructing a robust roaming environmen
Chung Fan Liu, Chyi Nan Chen
February 2003 **M bile Netw rks and Applicati ns**, Volume 8 Issue 1

Full text available: pdf(334.33 KB)   Additional Information: full citation, abstract, references, index term

In this paper, a model called SAGCoM (Sliding-Agent Group Communication Model) is proposed
roaming environment over Internet. SAGCoM is based on the concept of agent and group comm
of agent reduces the coupling of two connected individual networks, so that the error occurred v
propagate to the other one. The operation of different communication adapters (also called tiers
integrated through the operation ...

Keywords: fault-tolerant, mobile agent, wireless Internet, wireless communication

10 Defending wireless infrastructure against the challenge of DDoS attacks
Xianjun Geng, Yun Huang, Andrew B. Whinston
June 2002   **Mobile Networks and Applications**, Volume 7 Issue 3
Publisher: Kluwer Academic Publishers
Full text available: pdf(313.57 KB)   Additional Information: full citation, abstract, references, citings, ind

This paper addresses possible Distributed Denial-of-Service (DDoS) attacks toward the wireless
Wireless Extended Internet, the Wireless Portal Network, and the Wireless Ad Hoc network. We
model for defending against DDoS attacks on the wireless Internet, which incorporates both coc
solutions and economic incentive mechanisms built on usage-based fees. Cost-effectiveness is a
an illustrative implementation sche ...

Keywords: DDoS attack, PBN, wireless ad hoc network, wireless extended internet, wireless in
portal network

11 Technical reports
SIGACT News Staff
January 1980 **ACM SIGACT News**, Volume 12 Issue 1
Publisher: ACM Press
Full text available: pdf(5.28 MB)   Additional Information: full citation

12 Practitioners report: The parks PDA: a handheld device for theme park guests in squeak
Yoshiki Ohshima, John Maloney, Andy Ogden
October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented
systems, languages, and applications**
Publisher: ACM Press
Full text available: pdf(488.82 KB)   Additional Information: full citation, abstract, references, index term

The Parks PDA is a lightweight, handheld device for theme park guests that functions as a comb
and digital camera. Together with a small team of artists and designers, we created a prototype
for a three hour guest experience, including a camera interface, a hyper-linked guide book, thre
spotters guide, a cross-referenced map, animated movies with lip-synched sound, a ride reserv.
Over 800 visitors to Disney's An ...

Keywords: PDA, development environment, end-user software, handheld device, multimedia d
software development

13 JRes: a resource accounting interface for Java
Grzegorz Czajkowski, Thorsten von Eicken
October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference or
programming, systems, languages, and applicati ns OOPSLA '98**, Volume 33 Iss
Publisher: ACM Press
Full text available: pdf(2.01 MB)   Additional Information: full citation, abstract, references, citings, ind

With the spread of the Internet the computing model on server systems is undergoing several in
Recent research ideas concerning dynamic operating system extensibility are finding their way i
domain, resulting in designs of extensible databases and Web servers. In addition, both ordinar

providers must deal with untrusted downloadable executable code of unknown origin and intent
Java has emerged as the language of choice fo ...

Keyw rds: Java, extensible systems, resource management

14 A public-key based secure mobile IP

John Zao, Joshua Gahm, Gregory Troxel, Matthew Condell, Pam Helinek, Nina Yuan, Isidro Castine
October 1999 **Wireless Netw rks**, Volume 5 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: pdf(255.65 KB) Additional Information: full citation, references, citings, index terms

15 DHT: OpenDHT: a public DHT service and its uses

Sean Rhea, Brighten Godfrey, Brad Karp, John Kubiatowicz, Sylvia Ratnasamy, Scott Shenker, Ion
August 2005 **Proceedings of the 2005 conference on Applications, technologies, architecti
computer communications SIGCOMM '05**
Publisher: ACM Press
Full text available: pdf(535.74 KB) Additional Information: full citation, abstract, references, index term

Large-scale distributed systems are hard to deploy, and distributed hash tables (DHTs) are no e
barriers facing DHT-based applications, we have created a public DHT service called OpenDHT.
be widely shared, both among mutually untrusting clients and among a variety of applications,
challenges. First, there must be adequate control over storage allocation so that greedy or mali
more than their fair share. Se ...

Keywords: distributed hash table, peer-to-peer, resource allocation

16 IP Easy-pass: a light-weight network-edge resource access control

Haining Wang, Abhijit Bose, Mohamed El-Gendy, Kang G. Shin
December 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 6
Publisher: IEEE Press
Full text available: pdf(721.97 KB) Additional Information: full citation, abstract, references, index term

Providing real-time communication services to multimedia applications and subscription-based]
requires that sufficient network resources be reserved for real-time traffic. However, the reserv
susceptible to resource theft and abuse. Without a resource access control mechanism that can
legitimate real-time traffic from attacking packets, the traffic conditioning and policing enforced
Provider (ISP) edge route ...

Keywords: network QoS, resource access control

17 Data base directions: the next steps

John L. Berg
November 1976 **ACM SIGMOD Record , ACM SIGMIS Database**, Volume 8 , 8 Issue 4 , 2
Publisher: ACM Press
Full text available: pdf(9.95 MB) Additional Information: full citation, abstract

What information about data base technology does a manager need to make prudent decisions
technology? To provide this information the National Bureau of Standards and the Association fɪ
established a workshop of approximately 80 experts in five major subject areas. The five subjeɪ
evolving technology, government regulations, standards, and user experience. Each area prepa
these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, governn
management objectives, privacy, security, standards, technology assessment, user experience

18 An open architecture for next-generation telecommunication services

Gregory W. Bond, Eric Cheung, K. Hal Purdy, Pamela Zave, J. Christopher Ramming

Full text available: pdf(237.24 KB)   Additional Information: full citation, abstract, references, citings, ind

An open (in the sense of extensible and programmable) architecture for IP telecommunications comprehensive strategy for managing feature interaction. We describe our experience with Box telecommunication platform that implements the DFC technology for feature composition. We p problems, common to all efforts in IP telecommunications, of feature distribution, interoperabili management. We also explain how BoxOS addresses many deficiencie ...

Keywords: Component architectures, Intelligent Network architecture, Session Initiation Proto feature interaction, instant messaging, multimedia systems, network addressing, network inter optimization, network protocols, service creation

19 Terminating telephony services on the internet

Vijay K. Gurbani, Xian-He Sun

Full text available: pdf(544.74 KB)   Additional Information: full citation, abstract, references, index term

We propose a general purpose service architecture for realizing services which start in the Publi Network (PSTN) but terminate and execute on the Internet. We discuss the needs for such serv efforts in this direction which lead to prototyping certain benchmark services, and the current s We demonstrate the feasibility of the architecture by focusing on services which involve wirelin wireless aspects (2 G, ...

Keywords: HTTP, SIP, internet, public switched telephone network(PSTN), services, wireless, v

20 A system for authenticated policy-compliant routing

Barath Raghavan, Alex C. Snoeren

Full text available: pdf(219.77 KB)   Additional Information: full citation, abstract, references, index term

Internet end users and ISPs alike have little control over how packets are routed outside of the their ability to achieve levels of performance, reliability, and utility that might otherwise be atta have proposed a number of source-routing techniques to combat this limitation, there has thus independent ASes to ensure that such traffic does not circumvent local traffic policies, nor to ac correct party to char ...

Keywords: authentication, capabilities, overlay networks, source routing